

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

UNION CARBIDE CORPORATION
ELECTRONICS DIVISION
#OH D 000-821-470

CARBON PRODUCTS DIVISION
#OH D 004-167-383 -

OK
7/24/84
US EPA RECORDS CENTER REGION 5



Union Carbide Corporation is located in the City of Lakewood, Cuyahoga County. Union Carbide has two divisions at this site: Electronics Division (EPA ID. #OH D 000-821-470) at 11901 Madison and Carbon Products Division (EPA ID #OH D 004-167-383) at 11709 Madison. Carbon Products Division is currently inspected under the state-operated RCRA program. A RCRA 3001 notification was filed for this division as a generator and TSD facility. The Electronics Division is on ERRIS, but has not been inspected under the RCRA program. A RCRA 3001 and CERCLA 103(C) notification were filed for this division. They notified for being a generator and TSD facility and for on-site disposal of organics.

Because these two divisions are co-located and have likely shared on-site disposal areas, one assessment has been completed for these two divisions. This site is surrounded by a combination of industrial land uses to the south and southwest and commercial/residential land uses to the north and east.

Union Carbide has been active at this site since the early 1900's. The Carbon Products Division makes various graphite parts, packing, and gaskets. The Electronic Division manufactures barium getters for electronic tubes. A wide range of wastes have been generated at this site. Historically, waste streams have changed as production processes have been modified.

Information is limited as to these wastes and on-site disposal. Some details on past on-site disposal practices are provided in the attachments to this assessment. A list of currently permitted wastes for the Carbon Products Division is also attached. This list may indicate additional wastes that may have also been disposed of on-site prior to RCRA. No information on wastes generated by the Electronics Division is currently available. This division has not been inspected under the state-sponsored RCRA program.

A series of underground flues that were once used to transport process gases underlie portions of this site. These flues were concentrated in Area E (see attached maps). These flues were abandoned for this use many years ago. Prior to 1976, these tunnels were used for storing spent phenolic resins. These resins are currently stored in an above-ground 12,000 gallon tank. Water continues to collect in these tunnels.

Based on current information, it is recommended that this site be given a medium priority for field investigation. These activities may include investigation of the land disposal area, the underground flues, and possible groundwater contamination. Additionally, Ohio EPA proposes to inspect the Electronics Division as a hazardous waste generator and/or TSD in conjunction with future RCRA inspections.

CM:ldm

June 20, 1984

Revised 6/29/84

C = CHANGE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
0 0000- -470

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

UNION CARBIDE CORPORATION

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

11709 + 11901 MADISON A

03 CITY

LAKEWOOD

04 STATE 05 ZIP CODE 06 COUNTY

OH 44101 C AHOGA

07 COUN
CODE

03

08 COUN
DIST

09 COORDINATES LATITUDE

41°28'03.3" N

LONGITUDE

081°46'01.6" W

LAKEWOOD QUAD 30NE

10 DIRECTIONS TO SITE (Starting from nearest public road)

III. RESPONSIBLE PARTIES

01 OWNER (If known)

UNION CARBIDE CORPORATION

02 STREET (Business, mailing, residential)

11709 - 11901 MADISON AVE

03 CITY

LAKEWOOD

04 STATE 05 ZIP CODE

OH 44101

06 TELEPHONE NUMBER

6226-282

07 OPERATOR (If known and different from owner)

SAME

08 STREET (Business, mailing, residential)

09 CITY

10 STATE 11 ZIP CODE

12 TELEPHONE NUMBER

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL

(Agency name)

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11/2/80

MONTH DAY YEAR

☒ B. UNCONTROLLED WASTE SITE (CERCLA 103(c))

DATE RECEIVED: 6/9/81

MONTH DAY YEAR

☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 6/84

☐ NO

MONTH DAY YEAR

02 (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☒ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☒ A. ACTIVE

☐ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

EARLY 1900's

PRESENT

BEGINNING YEAR

ENDING YEAR

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

PHENOLIC RESIN

ACETONE

BARIUM ALLOYS

NR

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

GROUNDWATER (ENVIRONMENT)

SURFACEWATER (POPULATION/ENVIRONMENT)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☒ B. MEDIUM

(Inspection required)

☒ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

DEBORAH BERG

02 OF (Agency/Organization)

OHIO EPA - NE DISTRICT

03 TELEPHONE NUMBER

(616) 425-9111

04 PERSON RESPONSIBLE FOR ASSESSMENT

ERINE McCORD

05 AGENCY

06 ORGANIZATION

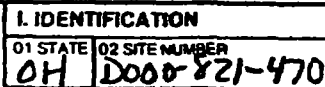
07 TELEPHONE NUMBER

08 DA

OHIO EPA NE DISTRICT (216) 425-9111

1 8

MONTH DAY YEAR



<input type="checkbox"/> A. TOXIC	<input type="checkbox"/> E. SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input type="checkbox"/> B. CORROSIVE	<input type="checkbox"/> F. INFECTIOUS	<input type="checkbox"/> J. EXPLOSIVE
<input type="checkbox"/> C. RADIOACTIVE	<input type="checkbox"/> G. FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> H. IGNITABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

OH D000821-470

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 225,000 04 NARRATIVE DESCRIPTION

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: - 04 NARRATIVE DESCRIPTION

- LAKE ERIE 1.1 MILES TO NORTH
- SURFACE RUNOFF COLLECTION SYSTEM DISCHARGES INTO LAKE

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: UNK (Acres) 04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

LAKE ERIE IS SOURCE OF DRINKING WATER

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH D000-824470

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 225,000

IV. COMMENTS

- off-site inspection 5/1/84 OHIO EPA - C. McCORD
- AN INCINERATOR WAS ONCE USED ON PROPERTY.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)



UNION CARBIDE CORPORATION 11709 MADISON AVENUE, CLEVELAND, OHIO 44107
CARBON PRODUCTS DIVISION • TELEPHONE: 216-223-2824

ADDRESS REPLY TO:

P.O. BOX 6087

CLEVELAND, OH 44101

→ INFO ON ON-SITE DISPOSAL

Ms. Deborah J. Berg
Ohio EPA
Twinsburg, OH 44087

April 4, 1984

Dear Ms. Berg:

Pursuant to your annual EPA Audit on March 27, 1984, the following information concerning our past storage areas, landfill and incinerator site as represented by the letters E, F, G, H and I on our Part "A" RCRA permit are as follows:

E - Past Storage Area, Approx. 210' x 270'

This area was previously covered by buildings which housed some furnaces. Many years ago these buildings were demolished along with the furnaces. However, some of the furnace bases were left underground and subsequently covered over to make the area into a parking lot. For some period of time, diluted waste treat solution was pumped into this area as a temporary storage. This waste treat solution consisted of various phenolic resins, acetone and water. Acetone and water were used as cleaning or dilution liquids for the phenolic resins. The removal of this waste treat solution occurred until October/November, 1976. At this time, a 10,000 gallon above ground storage tank was installed to store the waste treat solution. Since 1976, rain and melted snow have continually flushed this underground area such that the hazard of ignitability due to the acetone is no longer present in the groundwater from this past storage area. Analytical tests on the groundwater from this area indicate that this liquid is not E.P. toxic nor RCRA ignitable. No other element or substance investigated appeared abnormally high or of concern.

F - Past Landfill Area, Approx. 80' x 113'

Several years ago this area was used as a solid waste dump. It did contain some Barium alloy waste, i.e. Barium Carbonate which is not specifically listed as a hazardous waste (per RCRA legislation). This area was backfilled and contoured. Several test wells were installed in and around this site. Sample results from these wells indicate no ground water contamination.

closed 1976

Deborah J. Berg
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SUBJECT: Past Storage Areas

G - Past Incinerator Site, Approx. 15' x 35'

This area was used only for a few years (approx. 4 years). It's primary purpose was to incinerate general refuse, i.e. wood pallets, paper boxes, and general trash. As best as can be determined, it became inactive during the Spring of 1974. It has been backfilled and contoured over.

H - Past Storage Area, 10' x 10' x 10'

This pit or vault is used for Boron Nitride sludge (water and fine powder). It has been sampled and found to be non-hazardous by RCRA definitions. It is accessible and on occasions has been pumped out and the sludge disposed of by Al-Chemtron, Inc. at their Train Avenue site, Cleveland, OH.

I - Past Storage Area, 10' x 10' x 10'

This underground area located between building No. 18 and building No. 7 contained carbon dust from wet machining and grinding operations. Use of this area ceased several years ago and a concrete pad now covers this area. It is inaccessible.

closed 11/950

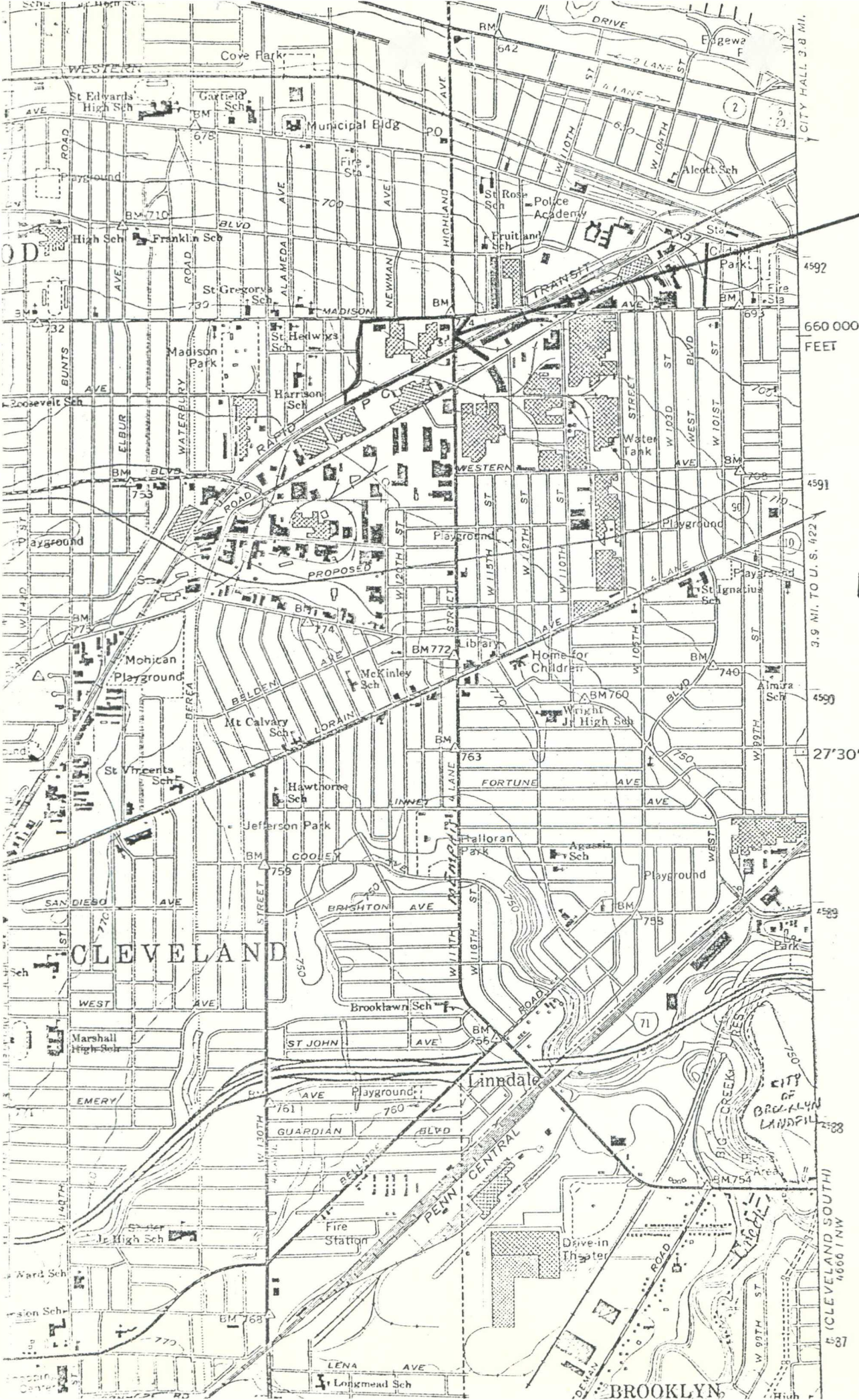
Very truly yours,



R. E. Neel
Environmental Coordinator

ar

cc Y. B. Quinn
RCRA Notebook
REN/file



UNION
CARBIDE
CORPORATION

LAKENOOD
QUAD
30 NE

660 000
FEET

27'30"

4666 (NW)

837